


Engineer: Chris Samios	Date: 3/11/04	<div style="text-align: center;">  JPS Communications 5800 Departure Drive, Raleigh, NC 27616 </div>			
Drawn: Bruce Page	Date: 3/11/04				
Approved: Jack Curtis	Date: 6/21/04	Title: ACU RADIO APPLICATION NOTES			
Issued/ Revised	Date: 12-9-04	Size: A	Dwg. #: 5961-271176-APP	Rev: B1	Sheet: 1 Of 1

APPLIES TO:

Kenwood TK-760 VHF Mobile Radio
Kenwood TK-860 UHF Mobile Radio

RADIO MODIFICATIONS:

Radio must have Kenwood Accessory Cable KCT-19 installed, as follows:

1. Remove the top cover.
2. Disconnect the internal speaker from connector CN8.
3. Connect the KCT-19 Accessory Cable as shown in Figure 1.
4. Route the accessory cable through the cable slot underneath the DC power cable. The strain relief must remain inside radio chassis.
5. replace top cover.

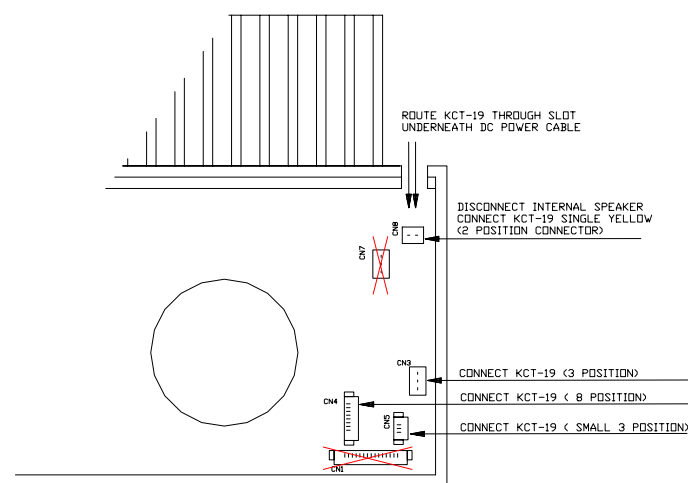


FIGURE 1. KCT-19 ACCESSORY CABLE

RADIO PROGRAMMING:

1. Mobile radios should normally be programmed for low transmit power when possible.
2. Use KPG56D programming software and the KPG46 programming cable.
3. Press Alt key and then using arrow keys select Program – Read from radio.
4. Press Alt key and select Edit – Optional Features – Data TX with QT/DQT =Yes.
5. Press Alt key and select Program – Write to radio.

RADIO CONTROLS:

1. Adjust the Volume Control until the yellow “SIGNAL” indicator on the associated DSP Module flashes with receive audio.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291176	(5961-271176 + 5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281176	(5961-271176 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271176	
RF Connector Type		

DSP JUMPERS:

JP1	Low Impedance*
JP2	Balanced*

DSP PROGRAMMING:

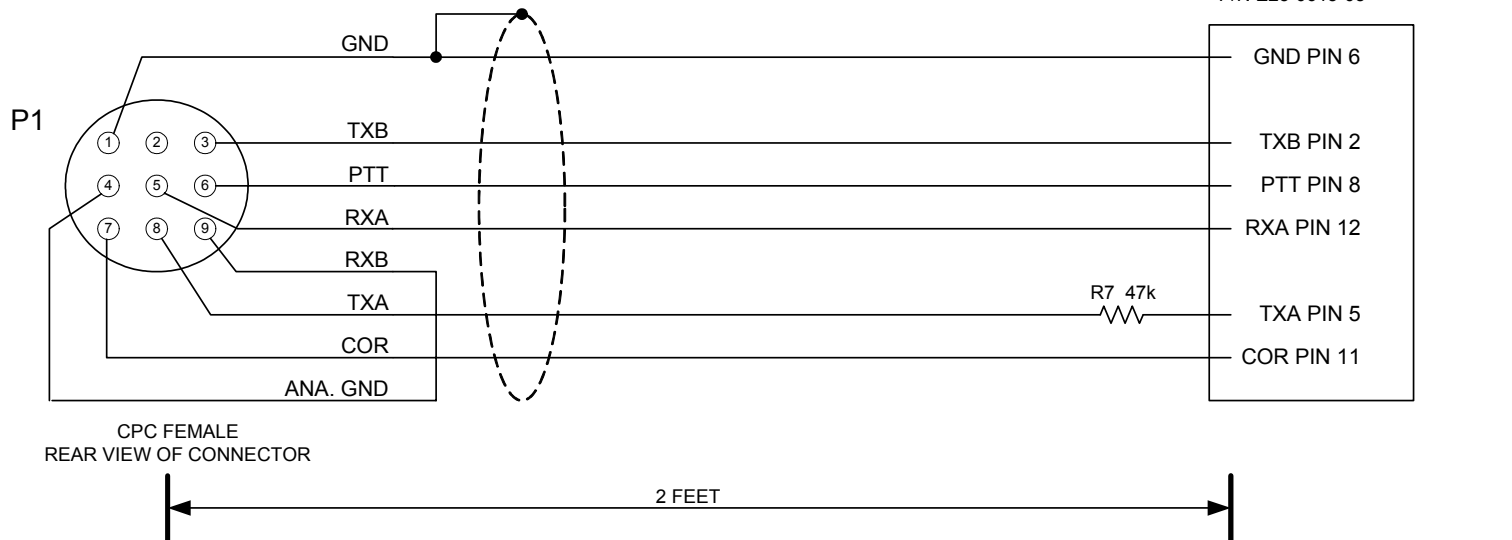
RX Level	3*	0dBm*
TX Level	6*	0dBm*
Squelch Type	COR	
COR Polarity	Active High	
High Frequency Equalizer	4*	Flat*
RX Audio Delay	2*	100 ms*
TX Audio Delay (Radio Type)	0*	No Delay*
Noise Reduction Value	0*	Off*
VOX/VMR Threshold	1*	Med1*
VOX/VMR Hang Time	3*	775 ms*
COR Inhibit After PTT	1*	100 ms*
All Others	As needed	
	(* Indicates Default Value)	

NOTES:

PURCHASED PART

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USE MOLDED CABLE
(JPS P/N 5961-261003-00)



COMPONENT PCB
(JPS P/N 5961-271000)

R7 JPS P/N 1820-473000
JU1
JU4
JU6

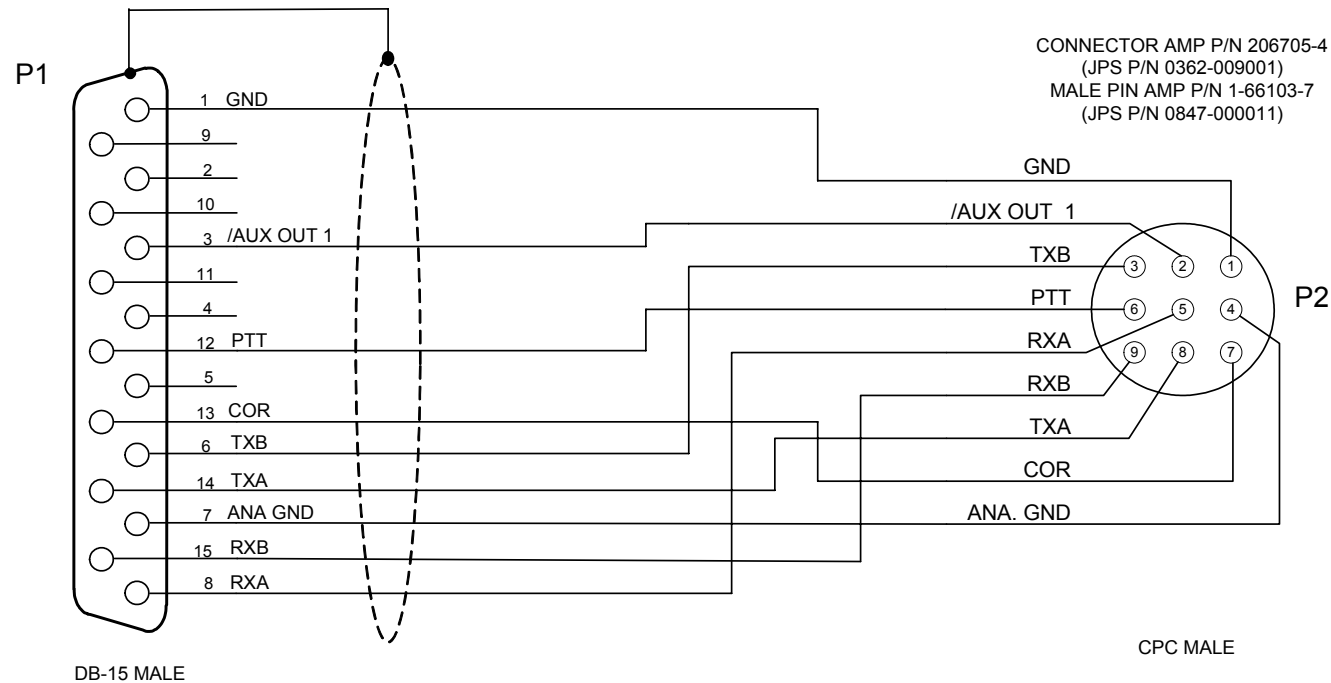
NOTE: SHIELD DRAIN CONNECTED TO PIN 1 OF P1 ONLY.

USED WITH:
KENWOOD TK-760 MOBILE
KENWOOD TK-860 MOBILE

Designed By:	CTS	Raytheon JPS Communications Raleigh, NC USA		
Drawn By:	EDV	Title CABLE, CPC TO KENWOOD TK-860		
Checked By:	JAC	Size A	Document Number 5961-271176	Rev A
		Issued Date	NOVEMBER 5, 2003	Sheet <u>1</u> of <u>1</u>

PURCHASED PART

Rev	ECO	Date
A		



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO SHELL OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

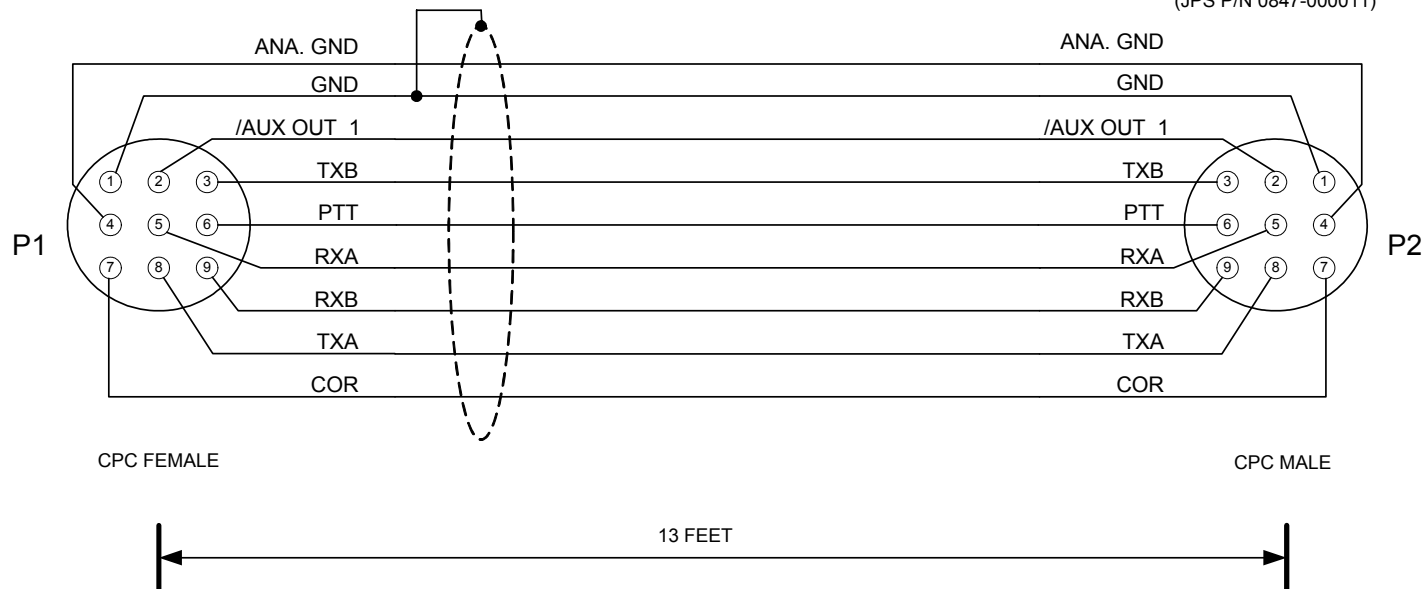
Designed By: JAC	Raytheon JPS Communications		
Drawn By: JAC	Title CABLE, ACU-1000 RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-261002-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	

Rev	ECO	Date
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PURCHASED PART

CONNECTOR AMP P/N 206708-1
(JPS P/N 0362-005003)
FEMALE PIN AMP P/N 1-66105-8
(JPS P/N 0362-005002)

CONNECTOR AMP P/N 206705-4
(JPS P/N 0362-009001)
MALE PIN AMP P/N 1-66103-7
(JPS P/N 0847-000011)



- NOTES: 1) USE BELDEN 9934 SHIELDED CABLE.
2) CONNECT SHIELD DRAIN TO PIN 1 OF P1 ONLY.
3) CONNECTORS P1 AND P2 MUST BE MOLDED TO THE CABLE.
4) CABLE MUST BE LABELED WITH THE RAYTHEON/JPS P/N AND REV, VENDOR CODE AND DATE (MM/YY).

Designed By: JAC	Raytheon JPS Communications Raleigh, NC USA		
Drawn By: JAC	Title CABLE, ACU-T RADIO EXTENSION - 13 FT		
Checked By: RBP	Size A	Document Number 5961-281013-00	Rev A
Issued Date JANUARY 5, 2004		Sheet <u>1</u> of <u>1</u>	